

Title	Determination of Plant Nutrition Status and Potential Toxic Element Contents of Antalya and Muğla regions Agricultural Soils, Preparation of Soil Data Base and Soil Maps
Number	-
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Abstract:

Effective use and protection of soil resources is only possible with determining its natural resource potential and monitoring changes in soil parameters with time. It is a real miss not to having revised soil resource documents and national soil data base. The objective of this project are to determine fertility status and potential toxic element contents of Turkish agricultural soils at local, regional and national scales, to prepare distribution maps of fundamental soil parameters and to set a revisable-questionable national soil date base. With this concept, the map of Turkey was gridded by 2.5x2.5 km intervals, and 44104 soil samples will be collected at the intersections of the cells crossed with agricultural areas.

In our study areas, soil samples will be collected 664 for Antalya, 350 for Muğla Soil fertility analyses (texture, saturation percentage, soil reaction, electrical conductivity, lime content, organic matter content, available phosphorus, total nitrogen, exchangeable K, Ca, Mg, Na, B, Fe, Cu, Zn ,Mn, Ni, Cd, Cr, Pb, Co) and total toxic element contents (Cu, Zn, Ni, Cd, Cr, Pb and Co) of these soil samples will be determined. A national soil data base on fertility status, macro and micro plant nutrition and potential toxic element contents of agricultural soils, GIS supported soil parameter distribution maps at 1/100000 scale, and a computer software for monitoring changes in measured points, loading new soil data and revising soil data base will be the main outputs of this Project.